Tangrams

Create a set of tangrams and use them to make designs and solve puzzles.

Kit contains:

- 1 Tangram Template
- 1 Tangram Challenges Booklet

You will need: scissors and coloring supplies.

MORTON GROVE PUBLIC LIBRARY
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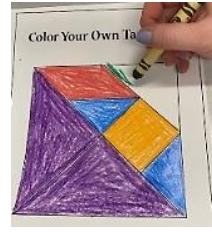
INSTRUCTIONS



(1) Color the tangram template.

(2) Cut out the tangram shapes.

(3) Use the tangrams to complete the challenges in the booklet. Level 1 shows you the outlines of the shapes. On the Level 2 challenges, you need to figure out which tangrams go where, like a puzzle (answers are on the back).
There are also some creative challenges.

What else can you build using your tangrams?

https://www.hand2mind.com/glossary-of-hands-on-manipulatives/tangrams
https://www.steampoweredfamily.com/tangrams-for-kids/

ABOUT TANGRAMS

Tangrams were invented in China over 200 years ago. The tangram is made up of 7 shapes, called tans. Every set of tangrams has the same shapes. Tangrams help us learn about geometry and mathematical thinking.

There are 3 types of shapes in a set of tangrams:

5 triangles (2 big, 1 medium, 2 small)

- A shape with 3 sides and 3 angles
- All the triangles are **isosceles right triangles**, which means one angle is 90° and the other two angles are 45°.

1 parallelogram

- A shape with 4 sides and 4 angles
- Opposite sides and opposite angles are equal.

1 square

- A shape with 4 sides and 4 angles
- All sides and all angles are equal.

MORE ABOUT TANGRAMS

- All of the angles in the tans are multiples of 45 (45°, 90°, 135°).
- All of the tans can be covered by combinations of the small triangles. The medium triangle, the square, and the parallelogram are each made up of two small tangram triangles, so they each have an area twice that of the small triangle. The large triangle is made up of four small tangram triangles and has an area four times that of the small triangle.

Small Triangle Medium Triangle Square Parallelogram Large Triangle

Tangrams at the Library

We have a set of large tangrams in the Youth Services Department. Puzzles are changed every 2 weeks. Come use them for more tangram fun!